

CLAIMS

What is claimed is:

1 1. A method of provisioning a circuit comprising the steps of:
2 provisioning an Ethernet port facility, including determining members of
3 a Link Capacity Adjustment Scheme Virtual Concatenation Group before virtual
4 tributary or synchronous transport signal cross connections are provisioned and
5 before Synchronous Optical Network or Synchronous Digital Hierarchy cross-
6 connections are provisioned;
7 provisioning virtual tributary or synchronous transport signal cross
8 connections; and
9 provisioning Synchronous Optical Network or Synchronous Digital
10 Hierarchy cross-connections.

1 2. The method of claim 1, wherein the step of provisioning the Ethernet
2 port facility comprises the step of
3 provisioning the Ethernet port facility so that Virtual Concatenation
4 Group members that are not associated with a virtual tributary or synchronous
5 transport signal cross connection return an Link Capacity Adjustment Scheme
6 sink status of FAIL and Virtual Concatenation Group members that are not

7 associated with a virtual tributary or synchronous transport signal cross
8 connection enter an operational Link Capacity Adjustment Scheme source state
9 of "Do Not Use".

1 3. The method of claim 2, wherein the method further comprises the step
2 of:

3 using Link Capacity Adjustment Scheme source and sink adaptation
4 functions, automatically activating the Virtual Concatenation Group members.

1 4. The method of claim 3, wherein the step of using Link Capacity
2 Adjustment Scheme source and sink adaptation functions, automatically
3 activating the Virtual Concatenation Group members comprises the step of:

4 causing the Virtual Concatenation Group members to have an Link
5 Capacity Adjustment Scheme sink status of OK and an operational Link
6 Capacity Adjustment Scheme source state of NORM or EOS.

1 5. A system for provisioning a circuit comprising:

2 means for provisioning an Ethernet port facility, including determining
3 members of a Link Capacity Adjustment Scheme Virtual Concatenation Group

4 before virtual tributary or synchronous transport signal cross connections are
5 provisioned and before Synchronous Optical Network or Synchronous Digital
6 Hierarchy cross-connections are provisioned;
7 means for provisioning virtual tributary or synchronous transport signal
8 cross connections; and
9 means for provisioning Synchronous Optical Network or Synchronous
10 Digital Hierarchy cross-connections.

1 6. The system of claim 5, wherein the step of provisioning the Ethernet port
2 facility comprises the step of
3 means for provisioning the Ethernet port facility so that Virtual
4 Concatenation Group members that are not associated with a virtual tributary or
5 synchronous transport signal cross connection return an Link Capacity
6 Adjustment Scheme sink status of FAIL and Virtual Concatenation Group
7 members that are not associated with a virtual tributary or synchronous transport
8 signal cross connection enter an operational Link Capacity Adjustment Scheme
9 source state of "Do Not Use".

1 7. The system of claim 6, wherein the method further comprises the step
2 of:

3 means for using Link Capacity Adjustment Scheme source and sink
4 adaptation functions, automatically activating the Virtual Concatenation Group
5 members.

1 8. The system of claim 7, wherein the step of using Link Capacity
2 Adjustment Scheme source and sink adaptation functions, automatically
3 activating the Virtual Concatenation Group members comprises the step of:

4 means for causing the Virtual Concatenation Group members to have an
5 Link Capacity Adjustment Scheme sink status of OK and an operational Link
6 Capacity Adjustment Scheme source state of NORM or EOS.